AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and

listings, of claims in the application:

Listing of Claims

1.-7. (cancelled)

8.   (previously presented): A programmable countermeasure

threat emulation system, comprising:

    a tubular housing suitable for launching from a submarine;

    a power supply within said tubular housing, said power

        supply including controls for selecting between

        operating remotely and operating connected to an

        external power source;

    a hovering system for said tubular housing for controlling

        mobility of said tubular housing within water;

    a transmitter for transmitting acoustic signals;

    a digital signal processing unit for producing waveforms to

        be transmitted by said transmitter; and

a central processing unit for storing digital information

related one or more countermeasure threats and

supplying said digital information to said digital

signal processing unit.

9.   (original): The system of claim 8 further comprising a

receiver hydrophone.

10.   (original): The system of claim 9 further comprising a

neural network analyzing signals from said receiver hydrophone.

11.   (original): The system of claim 8 further comprising a

plurality of field programmable gate arrays for said digital

signal processing unit.

12.   (original): The system of claim 8 further comprising a

plurality of digital signal processing integrated circuits for

said digital signal processing unit.

13.   (original): The system of claim 12 further comprising a

signal conditioner operable for converting a stream of digital

signals into analog signal for broadcast by said transmitter.

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14. (previously presented): The system of claim 8 further

comprising a database stored in a computer external to said

housing, said database containing a plurality of countermeasure

threats.

15. (previously presented): A method for emulating a

countermeasure threat, said method comprising:

maintaining a database having a plurality of countermeasure

        threats;

downloading data for at least one of said plurality of

        countermeasure threats into a computer within a

        housing;

launching said housing for underwater operation; and

transmitting an emulation of at least one of said plurality

        of countermeasure threats into water through an

        acoustic transducer.

16. (original): The method of claim 15 further comprising

processing said data utilizing one or more digital signal

processing integrated circuits.

17.   (original): The method of claim 16 further comprising

providing a plurality of field programmable gate arrays for

reprogramming said digital signal processing circuits.

18.   (original): The method of claim 15 further comprising

utilizing a receiver hydrophone in said countermeasure threat

emulator for receiving acoustic signals produced by an incoming

torpedo.

19.   (original): The method of claim 18 further comprising

identifying said incoming torpedo from said received acoustic

signals.

20.   (original): The method of claim 19 further comprising

utilizing a neural network within said countermeasure threat

emulator for said identifying.

21.   (original): The method of claim 19 further comprising

responding to said incoming threat based on said identification

and a preprogrammed response for said identification.

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22. (original): The method of claim 21 further comprising

simultaneously broadcasting acoustic signals and receiving

acoustic signals.

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